

REMARKS

The Office Action dated January 21, 2004 has been received and carefully noted. The above amendments to the claims, and the following remarks, are submitted as a full and complete response thereto.

Claims 1, 8 and 10 have been amended to more particularly point out and distinctly claim the subject matter of the invention. No new matter has been added. Claims 1-13 are respectfully submitted for consideration.

Claims 1-5 and 8-13 were rejected under 35 USC § 103(a) as being unpatentable over *Doe* (WO 96/18273) in view of *Fleischer, III et al.* (U.S. Patent No. 5,974,133). Claims 6 and 7 were rejected under 35 USC § 103(a) as being unpatentable over *Doe* (WO 96/18273) in view of *Fleischer, III et al.* and *King et al.* (U.S. Patent No. 5,864,755). Applicants respectfully submit that the presently pending claims recite subject matter which is neither disclosed nor suggested in the cited prior art.

Claim 1, from which claims 2-7 and 12 depend, recites a method for automatic location updating of a wireless terminal in a communications system. The system includes a number of private branch exchanges and at least one telephone exchange, the communications system being connected to a public integrated services network and an intelligent network. The method includes the terminal sending, in connection with a call setup, an automatic location updating message to a private branch exchange and the private branch exchange sending a call setup message to the exchange, the private branch exchange automatically adding the location information and identity of the terminal to the

call setup message, the telephone exchange automatically sending to a node of the intelligent network a service request, the service request including the location information and the identity of the terminal and the node of the intelligent network automatically adding the location information of the terminal to the subscriber number.

Claim 8, from which claims 9 and 13 depend, recites a private branch exchange. The exchange includes first interface means for interfacing to an exchange having a service switching post for interfacing to a service control point of an intelligent network and second interface means for interfacing to base stations of a telephone system supporting wireless terminals each terminal having an associated identity. The private branch exchange is configured to, in response to a location updating of one of the terminals, automatically assign location information for the one of the terminals and automatically send the location information to the exchange in a message which is suitably formatted so that the service switching point re-sends the location information to the service control point.

Claim 10, from which claim 11 depends, recites an arrangement for location updating of a wireless terminal in a communications system, the arrangement including a number of private branch exchanges and being in connection with a public integrated services network and an intelligent network. The wireless terminal includes means for sending a location updating message in connection automatically with a call setup to a private branch exchange and the private branch exchange includes means for sending a call setup message automatically to an exchange. The private branch exchange includes

means for automatically allocating location information to the terminal of the wireless network and the private branch exchange includes means for automatically adding the location information and the identity of the terminal to the call setup message. Also, the exchange includes means for automatically sending the location information and the identity of the terminal to a node of the intelligent network in connection with a service request and the node of the intelligent network includes means for automatically adding the location information and the identity of the terminal to the subscriber number.

As discussed in the present specification, the present invention enables automatic location updating of a wireless terminal in a communications system. It is respectfully submitted that the prior art of *Doe*, *Fleischer, III et al.* and *King et al.*, when viewed or when combined, fails to disclose or suggest the elements of any of the presently pending claims. Therefore, the prior art fails to provide the critical and unobvious advantages discussed above.

Applicants note that in the third office action (22 February 2002), the Office has previously indicated that only steps 1 and 2 (and the elements cited in the preamble) of claim 1 are disclosed by *Doe*. It was acknowledged that *Doe* did not disclose steps 3 or 4, i.e., that the exchange sends a service request including the location information and the identity of the terminal or adding the location information to the subscriber number. However, it was alleged that these steps were disclosed by *Huotari*, which was previously cited as prior art against the instant claims and is no longer cited.

In the present, sixth, office action, the Office still cites *Doe*, but now alleges that *Doe* teaches all of the steps of claim 1, save step 4. The subject matter of the last step of claim 1 is alleged to be found in *Fleischer, III et al.* More specifically, the rejection cites column 29 lines 12 - 27 of *Fleischer, III et al.* A particular portion of the section of *Fleischer, III et al.* recites:

... the Function Dialing feature may include a location-specific function that comprises one to three trailing digits that are added to the function number. The location-specific number may be manually entered by the calling party after entering the function number, at, for example, step 402, to indicate a specific location (e.g., SECURITY11) or a default location (e.g., SECURITY corresponding to (213) 647-8100) may be automatically set or assigned based on the calling party's location. Based on the data in the FN Translation Table, such as Table 5, and the location-specific function trailing number, the call will be routed to the appropriate location.

Applicants respectfully assert that the alleged combination of *Doe* and *Fleischer, III et al.* is invalid because *Fleischer, III et al.* does not relate to conventional call setup but “function dialing”. *Fleischer, III et al.* defines function dialing as “*comprising a function dialing number in which alphabetic representations of dialed numbers are dialed at the originating station to form a word associated with a functional aspect of a terminating station party*” (see eg claim 27 and column 9 lines 1 - 5 in *Fleischer, III et al.*). Conventional call set-up

does not involve “alphabetic representations of dialed numbers dialed at the originating station”. For at least this reason, Applicants respectfully assert that the alleged combination of *Doe* and *Fleischer, III et al.* is invalid.

Further, claim 28 of *Fleischer, III et al.* shows that *Fleischer, III et al.* only discloses a technique in which a user can manually update his/her location. In claim 27 of *Fleischer, III et al.*, a word is dialed by the originating station (i.e., by the user). In claim 28 thereof, the (manually-dialed) word comprises an appended location code. Further, *Fleischer, III et al.* discloses that the caller’s location (“location-specific number”) is dialed manually by the user, in contrast to the presently claimed invention in which the terminal sends the location information automatically. The specification in *Fleischer, III et al.* is consistent with the claims. For at least this reason, Applicants respectfully assert that the alleged combination of *Doe* and *Fleischer, III et al.* fails to teach all of the elements of claims 1, 8 and 10.

Additionally, the combination of *Doe* and *Fleischer, III et al.* fails to disclose location updating. Particularly, the last two steps of claim 1 of the present invention relate to a technique in which the telephone exchange and the IN node (SCP) cooperate to update the terminal’s location. At most, the combination of *Doe* and *Fleischer, III et al.* would disclose a technique in which the terminal is permanently in a private network, and all the SCP has to do is determine (based on the numbering plan), which private network the terminal is in. Thus there is no “location updating” in combination of *Doe* and *Fleischer, III et al.* Thus, for at least this reason,

Applicants respectfully assert that the alleged combination of *Doe* and *Fleischer, III et al.* fails to teach all of the elements of claims 1, 8 and 10.

In view of the above, Applicants respectfully submit that claims 1, 8 and 10 each recite subject matter which is neither disclosed nor suggested in a combination of *Doe* and *Fleischer, III et al.* In addition, Applicants respectfully assert that claims dependent thereon, namely claims 2-7, 9 and 11-13, should likewise be allowable over *Doe* and *Fleischer, III et al.* for at least their dependence on the independent claims.

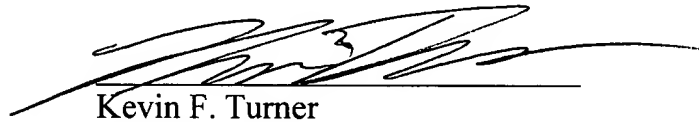
With respect to the rejection of claims 6 and 7, Applicants also note that *King et al.* was cited in the rejection of those claims. It was acknowledged that *Doe* and *Fleischer, III et al.* fail to teach a terminal identify as IPUI or IPEI and *King et al.* is cited as providing such a disclosure. However, *King et al.* fails to cure the deficiencies of *Doe* and *Fleischer, III et al.* discussed above, and Applicants respectfully assert that the rejection of claims 6 and 7 should likewise be withdrawn for at least their dependence on claim 1.

It is further submitted that each of claims 1-13 recite subject matter which is neither disclosed nor suggested in the cited prior art. It is therefore respectfully requested that all of claims 1-13 be allowed, and this application passed to issue.

If for any reason the Examiner determines that the application is not now in condition for allowance, it is respectfully requested that the Examiner contact, by telephone, the applicants' undersigned attorney at the indicated telephone number to arrange for an interview to expedite the disposition of this application.

In the event this paper is not being timely filed, the applicant respectfully petitions for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account 50-2222.

Respectfully submitted,



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